



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/US98/24006 (22) International Filing Date: 11 November 1998 (11.11.98) (30) Priority Data: 08/974,125 19 November 1997 (19.11.97) US 09/120,674 22 July 1998 (22.07.98) US 09/179,553 28 October 1998 (28.10.98) US (71) Applicant: AMCOL INTERNATIONAL CORPORATION [US/US]; One North Arlington, 1500 West Shure Drive, Arlington Heights, IL 60004 (US). (72) Inventors: BEIHOFFER, Thomas, W.; 412 South Belmont, Arlington Heights, IL 60005 (US). MITCHELL, Michael, A.; 440 Pheasant Ridge, Lake Zurich, IL 60047 (US). ANDERSON, Mark; 500 North Carlton, Wheaton, IL 60187 (US). TOMLIN, Anthony, S.; 607 Longacre Lane, Island Lake, IL 60042 (US). (74) Agent: NAPOLI, James, J.; Marshall, O'Toole, Gerstein, Murray & Borun, Suite 6300, 233 South Wacker Drive, Chicago, IL 60606 (US).			(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 2 September 1999 (02.09.99)
(54) Title: MULTICOMPONENT SUPERABSORBENT GEL PARTICLES			
(57) Abstract Multicomponent superabsorbent gel particles are disclosed. The multicomponent particles comprise at least one acidic water-absorbing resin and at least one basic water-absorbing resin. Each particle contains at least one microdomain of the acidic resin in contact with, or in close proximity to, at least one microdomain of the basic resin. Blends of multicomponent superabsorbent gel particles with particles of a second water-absorbing resin also are disclosed. Improved diaper cores containing particles of the multicomponent super-absorbent gel particles also are disclosed.			

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: A61L 15/60, C08J 3/075, A61F 13/15

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: A61L, C08J, A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9615163 A1 (THE PROCTER & GAMBLE COMPANY), 23 May 1996 (23.05.96) --	1-97
A	WO 9615180 A1 (THE PROCTER & GAMBLE COMPANY), 23 May 1996 (23.05.96) --	1-97
A	WO 9617681 A1 (THE PROCTER & GAMBLE COMPANY), 13 June 1996 (13.06.96) --	1-97
A	WO 9522358 A1 (THE PROCTER & GAMBLE COMPANY), 24 August 1995 (24.08.95) --	1-97

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 98/24006

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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P,X	WO 9824832 A1 (KIMBERLY-CLARK WORLDWIDE, INC.), 11 June 1998 (11.06.98) --	1-97
P,X	WO 9837149 A1 (THE PROCTER & GAMBLE COMPANY), 27 August 1998 (27.08.98) -- -----	1-97

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02/02/99

International application No.

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